

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2004/002528

A. CLASSIFICATION OF SUBJECT MATTER

According to International Patent Classification (IPC) or to both national classification and IPC
B23K 26/20, B23K 26/16, B23K 26/32

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC7 B23K, US Class. 228 /173

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Welding Journal Research Supplement, International Society for Optical Engineering Conference Proceeding

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)
Delphion "welding and laser and galvanized", Canadian Patent database "B23K and laser and galvanized"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO90/11161 (Behler et al.) 04 October 1990 (04.10.1990) Entire document	1-2
A	US 5626776 (Morris Jr.) 06 May 1997 (06.05.1997) Entire document	1-2
A	US 6528756 B2 (Degawa et al.) 04 March 2003 (04.03.2003) Entire document	1-3
A	US 5104032 (Spiel et al.) 14 April 1992 (14.04.1992)	1-2

Further documents are listed in the continuation of Box C.

Patent family members are listed in annex.

* Special categories of cited documents :	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international-type search
07 December 2004 (07-12-2004)

Date of mailing of the international-type search report
24 January 2005 (24-01-2005)

Name and mailing address of the ISA/
Commissioner of Patents
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INTERNATIONAL SEARCH REPORT
Information on patent family members

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PCT/IB2004/002528

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
WO9011161	04-10-1990	DE3820848 A1	13-04-1989
		DE3844727 C2	07-12-1995
		DE3844856 A1	29-10-1992
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US5626776	06-05-1997	US5454480 A	03-10-1995
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		ES2048374T T3	16-03-1994
		JP2571976B2 B2	16-01-1997
		US5104032 A	14-04-1992